

ROUTINE MESSAGE

CDR USAPC NEW CUMBERLAND PA // SATPC-L//

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SUBJECT: PETROLEUM TECHNICAL ADVISORY MESSAGE # 79 - FUEL LINE ELBOW ON ALL M978 HEAVY EXPANDED TACTICAL TRUCK (HEMTT) TANKERS.

1. DISSEMINATE THIS INFO TO ALL PETROLEUM SUPERVISORS, AVIATION AND GROUND FUEL HANDLING PERSONNEL AND POL TANK VEHICLE OPERATORS.
2. WITHIN THE LAST YEAR, TACOM HAS PUBLISHED TWO SAFETY OF USE MESSAGES (SOU, TACOM CONTROL NO. 93-13 AND 94-07) PERTAINING TO THE FUEL LINE ELBOW USED ON ALL M978 HEAVY EXPANDED MOBILITY TACTICAL TRUCK (HEMTT) TANKERS. RECENT VISITS TO FIELD UNITS HAS INDICATED THAT THE MAJORITY OF AVIATION AND GROUND HEMTT TANKER OPERATORS WERE UNAWARE OF THESE SOUMS AND IN NUMEROUS CASES HEMTT TANKER OPERATORS AND UNIT MAINTENANCE PERSONNEL FAILED TO FOLLOW THRU ON INSPECTIONS OR REPAIRS AS DIRECTED BY THESE MESSAGES.
3. TACOM SOUM 93-13 WAS THE FIRST MESSAGE TO ALERT THE FIELD, THAT THE ELBOW SHOULD NOT BE TOUCHING THE ADJUSTMENT SCREW ON THE V5 AIR ACTUATED FLOW VALVE. IF THE ELBOW WAS IN CONTACT WITH THE V5 FLOW VALVE OR THE ELBOW SHOWED SIGNS OF DAMAGE FROM CONTACT, THE VEHICLE WAS IMMEDIATELY DEADLINE (NMC) AND COULD NOT BE OPERATED UNTIL THE ELBOW WAS REMOVED, INSPECTED, REPAIRED OR REPLACED. THIS MESSAGE ALSO PROVIDED INSPECTION CRITERIA, USERS ACTION, TACOM ACTION, SUPPLY STATUS AND TACOM POCS.
4. TACOM SOUM 94-07 WAS THE FOLLOW UP MESSAGE RESTATING THE PROBLEM OF THE ELBOW CONTACTING THE V5 VALVE ADJUSTMENT SCREW, INSPECTION CRITERIA, DETAILED REPAIR PROCEDURES.
5. IF THE ABOVE MESSAGE ARE UNAVAILABLE AT UNIT LEVEL CONTACT YOUR BATTALION MAINTENANCE OFFICE OR LOCAL TACOM LOGISTICS REPRESENTATIVE (LAR) FOR A COPY OF THESE TWO SOUMS. SOUMS ARE FIELDDED FOR A PURPOSE. SUPERVISORS SHOULD ENSURE EQUIPMENT OPERATORS ARE AWARE OF THESE SOUMS. FAILURE TO COMPLY WITH SOUMS MAY LEAD TO DEATH OR SERIOUS INJURY TO SOLDIERS, DAMAGE TO EQUIPMENT. PLAY IT SAFE AND COMPLY WITH THE SOUMS.
5. POC AT THIS CENTER FOR POL EQUIPMENT IS JIM LUPORI, DSN 977-6445, COMM (717) 770-6445/5582, FAX DSN 977-4230 OR COMMERCIAL (717) 770-4230.

JIM LUPORI, GEN SUP SPEC (PETRO)
SATPC-L, 6445

LONNIE R. ASHBROOK, C, 4993

UNCLASSIFIED

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DISTRIBUTION
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:MVA (SOM POC)/M-PS/SAIW-JME/DLA-ORW/CISAM-E-DE
DRAFTERS NAME
:JAMES HOWARD/EQUIP SPEC
DRAFTERS OFFICE
:HV TAC VEH BR/AMSTA-MTC/47910
RELEASERS NAME
:ALLAN C. MCGILL/COL, GS/DIR OF M

:
DTG
:152058Z
MONTH
:DEC
YEAR
:93
TEXT
:UNCLAS

SUBJECT: SAFETY OF USE MESSAGE (SOM), TACOM CONTROL NO. 94-07,
"TECHNICAL," FOLLOW-UP INSPECTION OF THE FUEL PIPE ELBOW ON ALL M978
HEAVY EXPANDED MOBILITY TACTICAL TRUCKS (HEMTT) TANKERS, NSN
2320-01-097-0249, LIN T58161 (TRUCK, TANK, FUEL W/O WINCH) AND NSN
2320-01-100-7672, LIN T87243 (TRUCK, TANK, FUEL W/WINCH).

D XX D
A X "WARNING" X P
N X DEATH OR SERIOUS INJURY TO SOLDIERS, OR X N
G X DAMAGE TO ARMY EQUIPMENT WILL OCCUR IF THE X G
E X INSTRUCTIONS IN THIS MESSAGE ARE NOT X E
R X FOLLOWED. X R
XX

A. SOM, TACOM, AMSTA-M, 091927Z SEP 93, SUBJECT: SAFETY OF
USE MESSAGE (SOM), TACOM CONTROL NO. 93-13, "TECHNICAL" INSPECTION
OF FUEL LINE ELBOW (NSN 4730-00-460-2211) USED ON ALL M978 HEAVY
EXPANDED MOBILITY TACTICAL TRUCKS (HEMTT) TANKERS, NSN
2320-01-097-0249, LIN T58161 (TRUCK, TANK, FUEL W/O WINCH) AND NSN
2320-01-100-7672, LIN T87243 (TRUCK, TANK, FUEL W/WINCH).

1. DISTRIBUTION: THIS IS A "TECHNICAL" SAFETY OF USE MESSAGE.
MACOM COMMANDERS WILL RETRANSMIT THIS MESSAGE TO ALL SUBORDINATE
COMMANDS/ACTIVITIES WITHIN 24 HOURS OF RECEIPT OF THIS MESSAGE AND
ACKNOWLEDGE RECEIPT OF THIS MESSAGE WITHIN FIVE WORKING DAYS TO:
CDRTACOM, WARREN MI //AMSTA-MVA// DSN 786-7389/8299; COMMERCIAL (313)
574-7389/8299. MACOM COMMANDERS WILL ALSO TRACK AND REPORT COMPLIANCE
OF THIS MESSAGE FOR ALL SUBORDINATE COMMANDS/ACTIVITIES TO: CDRTACOM,
WARREN MI //3FAE CD TVII// DSN 786-5803, COMMERCIAL (313) 574-5803.
NLT 14 JAN 94.

2. PROBLEM:

* A. THIS MESSAGE PROVIDES INSPECTION/REPAIR INSTRUCTIONS AND *
NSN'S FOR PARTS REQUIRED TO KEEP THE FUEL PIPE ELBOW AWAY FROM THE V5
AIR FLOW VALVE. THE DIFFERENCES BETWEEN THIS MESSAGE AND THE
REFERENCE MESSAGE ARE IDENTIFIED BY ASTERISKS. (*)

B. A HOLE CAN BE WORN IN THE FUEL PIPE ELBOW (90 DEGREE) ON THE
HEMTT TANKER. DAMAGE TO THIS ELBOW OCCURS WHEN THE ELBOW RUBS AGAINST
* THE ADJUSTMENT SCREW OR THE BODY OF THE V5 AIR ACTUATED FLOW *
VALVE. SHOULD THIS HAPPEN, LEAKING FUEL WILL CAUSE A POTENTIAL FIRE
HAZARD, WHICH MAY RESULT IN VEHICLE DAMAGE, INJURY OR LOSS OF LIFE.

3. USER ACTION:

* A. PERFORM THE FOLLOWING INSPECTION/REPAIR AS SOON AS *
* PRACTICAL BUT NOT LATER THAN 5 DAYS AFTER RECEIPT OF THIS *
MESSAGE. VEHICLES NOT INSPECTED/REPAIRED WITHIN THIS PERIOD ARE
CONSIDERED NOT MISSION CAPABLE (NMC). THIS MESSAGE DOES NOT
AUTOMATICALLY DEADLINE YOUR ENTIRE M978 HEMTT FLEET. HOWEVER, IT
DOES ESTABLISH A MANDATORY REQUIREMENT TO DO THE FOLLOWING
* INSPECTION/REPAIR ON ALL M978 HEMTT TANKERS. *

* B. REMOVE THE REAR RIGHT ACCESS COVER AND LOCATE THE "V5 AIR *

* ACTUATED FLOW VALVE" (REFER TO TM 9-2320-279-20-3, PAGE 25-92,
 * ITEM 16, DATED 4 AUG 87). DIRECTLY ABOVE THIS VALVE IS A 90
 * DEGREE FUEL PIPE ELBOW, (NSN 4730-00-460-2211) (REFER TO TM
 * 9-2320-279-20P, DATED 30 MARCH 88, FIG 310, SHEET 2 OF 6 ITEM 47
 * IN THE CENTER OF THE PAGE). THE FUEL PIPE ELBOW SHOULD "NOT" BE
 * IN CONTACT WITH THE ADJUSTMENT SCREW OR THE BODY OF THE V5 AIR
 * ACTUATED FLOW VALVE. IF THE FUEL PIPE ELBOW IS IN CONTACT OR
 * SHOWS SIGNS OF CONTACTING THE V5 AIR FLOW VALVE, YOUR VEHICLE IS
 * IMMEDIATELY DEADLINED (NMC) UNTIL THE FOLLOWING PROCEDURES HAVE
 * BEEN ACCOMPLISHED.

C. REMOVE THE 90 DEGREE FUEL PIPE ELBOW (NSN 4730-00-460-2211)
 IAW TM 9-2320-279-20-3, PARA 25-11, PAGE 25-50. INSPECT THE ELBOW FOR
 DAMAGE OR GROOVES GREATER THAN 1/16 INCH DEEP. ELBOWS WITH DAMAGE OR
 GROOVES GREATER THAN 1/16 DEEP "MUST" BE REPLACED OR REPAIRED. IF A
 REPLACEMENT ELBOW IS NOT AVAILABLE, REPAIR THE ELBOW BY SURFACE
 WELDING IT IAW THE WELDING THEORY AND APPLICATION MANUAL TM 9-237,
 PAGE 3-10, PARA 3-19 DATED OCT 1976.

* D. ANYTIME YOUR ELBOW IS REMOVED YOU "MUST" INSPECT THE SEALS
 * (NSN 5330-01-164-G302 AND NON 5330-01-186-1124) FOR DAMAGE, AND
 * REPLACE AS NEEDED. REINSTALL YOUR ELBOW IAW TM 9-2320-279-20-3,
 * PARA 25-11, PAGE 25-50, DATED 4 AUG 87.

* E. PERFORM THE FOLLOWING TO SUPPORT THE PIPING/90 DEGREE FUEL
 * PIPE ELBOW THAT IS/WAS RUBBING AGAINST THE V5 AIR FLOW VALVE.

* F. REQUISITION 2 HOSE CLAMPS (NSN 4730-01-280-8502) AND TUBING
 * (NSN 4720-01-353-7464). INSTALL 27 INCHES OF THE TUBING ONTO
 * EACH HOSE CLAMP.

* G. USE THE 2 HOSE CLAMPS TO CONNECT THE STRAIGHT ADAPTER, ITEM
 * 62 (REFER TO TM9-2320-279-20P, FIG 310, SHEET 3 OF 6) TO PIPE
 * ELBOW, ITEM 46 (REFER TO TM9-2320-279-20P, FIG 310, SHEET 2 OF 6)
 * BY PLACING THE HOSE CLAMPS AROUND THE STRAIGHT ADAPTER, ITEM 62,
 * AND THE HORIZONTAL PORTION OF PIPE ELBOW, ITEM 46. DO "NOT"
 * TIGHTEN THE HOSE CLAMPS AT THIS TIME.

* H. INSPECT THE FUEL PIPE ELBOW THAT IS/WAS RUBBING AGAINST THE
 * V5 AIR FLOW VALVE TO DETERMINE IF YOU HAVE AT LEAST 3/8 OF AN
 * INCH CLEARANCE BETWEEN THE FUEL PIPE ELBOW AND THE ADJUSTING
 * SCREW AND BODY OF THE V5 AIR FLOW VALVE.

* I. FOR VEHICLES WITH AT LEAST 3/8 OF AN INCH CLEARANCE,
 * TIGHTEN YOUR HOSE CLAMPS AND PROCEED TO THE NEXT STEP. FOR
 * VEHICLES WITH LESS THAN 3/8 OF AN INCH CLEARANCE, PRY AND BLOCK
 * THE FUEL PIPE ELBOW AT LEAST 3/8 OF AN INCH AWAY FROM THE V5 AIR
 * FLOW VALVE, ADJUSTING SCREW AND BODY. TIGHTEN YOUR HOSE CLAMPS
 * AND REMOVE THE BLOCKS.

* J. INSPECT THE PUMP MODULE FOR FUEL LEAKS. REPAIR ANY LEAKS.
 * CLEAN THE PUMP MODULE AREA OF ALL FLUIDS IAW TM9-2320-279-20-3,
 * PARA 25-11, PAGE 25-50.

"NOTE"

* IF EVIDENCE OF LEAKS IS FOUND, CONTACT
 * THE LOCAL FIRE DEPARTMENT PRIOR TO CUTTING.

"CAUTION"

* FAILURE TO CLEAN THE PUMP MODULE AREA BEFORE
 * CUTTING WITH A HACKSAW OR BOLT CUTTERS IS A
 * FIRE HAZARD.

* K. THERE ARE 2 ADJUSTMENT SCREWS (NSN 5305-01-158-1991) ON THE
 * V5 AIR ACTUATED FLOW VALVE HELD IN PLACE BY JAM NUTS. LOCATE THE
 * ADJUSTMENT SCREW POINTED TO THE REAR OF THE VEHICLE. WITH A
 * HACKSAW OR BOLT CUTTERS, CUT OFF THE REAR ADJUSTMENT SCREW JUST
 * ABOVE THE JAM NUT.

* L. CONTINUE TO PERFORM THE INSPECTION IN PARA 3.B. OF THIS
 * MESSAGE AS PART OF YOUR MONTHLY PMCS UNTIL YOU HAVE INSTALLED THE
 * HOSE CLAMPS AND CUT THE REAR ADJUSTMENT SCREW OF THE V5 AIR FLOW

* VALVE.

M. UNIT COMMANDERS, CONTACT YOUR LOCAL TACOM LOGISTICS ASSISTANCE REPRESENTATIVE (LAR) OR YOUR STATE SURFACE MAINTENANCE MANAGER UPON RECEIPT OF THIS MESSAGE FOR ASSISTANCE. IF YOU DO NOT KNOW WHO YOUR TACOM LAR IS, FOR CONUS CALL DSN 367-5606/6293, FOR GERMANY CALL DSN 370-6128/7436, FOR KOREA CALL DSN 723-7519/6499. LARS ARE AVAILABLE TO HELP YOU.

4. TACOM/PM ACTIONS: CORRECT TM9-2320-279-20P TO REFLECT CALLOUT * 44 IN PLACE OF THE CURRENT CALLOUT ITEM 47 IN THE CENTER OF THE * PAGE ON FIG 3-10, SHEET 2 OF 6.

5. SUPPLY STATUS:

* A. LIMITED QUANTITIES OF SEAL (NSN 5330-01-164-6382) AND SEAL * (NSN 5330-01-186-1134) ARE AVAILABLE TO SUPPORT THIS SOUM. WE * ANTICIPATE DELIVERIES IN JANUARY OR FEBRUARY 1994. (S9I MANAGED)

* B. LIMITED QUANTITIES OF THE FUEL PIPE ELBOW (NSN * 4730-00-460-2211) IS AVAILABLE TO SUPPORT THIS SOUM. WE * ANTICIPATE DELIVERIES IN DEC 1993. (S9C MANAGED)

* C. LIMITED QUANTITIES OF CLAMPS (NSN 4730-01-280-8542) ARE * AVAILABLE TO SUPPORT THIS SOUM. WE ANTICIPATE DELIVERIES IN * FEBRUARY 94. (S9I MANAGED)

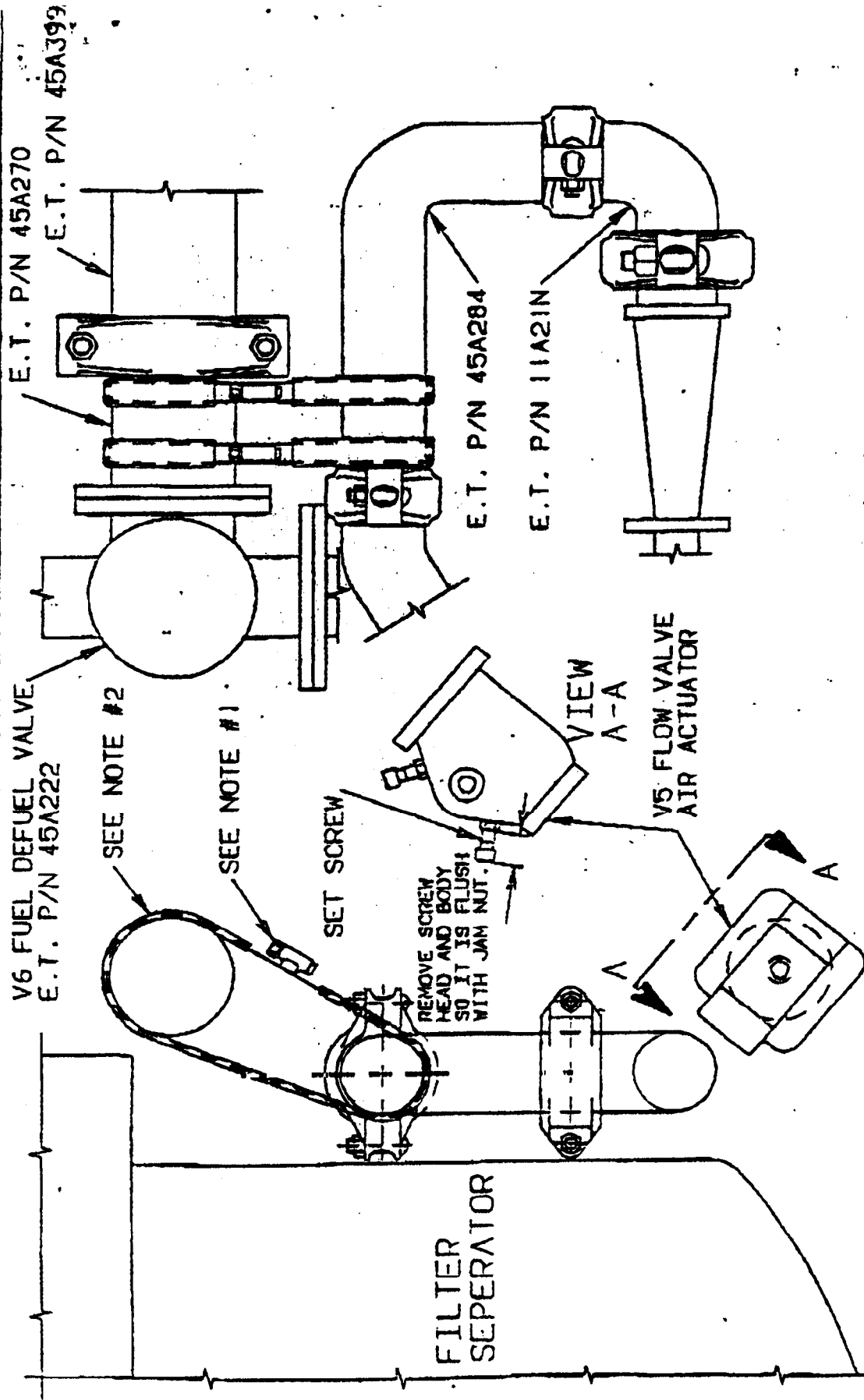
* D. TUBING (NSN 4720-01-353-7464, S9C MANAGED) WILL BE AVAILABLE * BY 30 DEC 93.

* E. UNITS, SUBMITT FUNDED REQUISITIONS IMMEDIATELY. USE THE HIGHEST PRIORITY YOU ARE AUTHORIZED OR CALL THEM INTO THE APPROPRIATE COUSTOMER CENTER BELOW:

DCSC (S9C) DSN: 850-2271/3191
COMM: (614) 692-2271/3191

DISC (S9I) DSN: 442-2336
COMM: (215) 697-2336

6. TACOM POINTS OF CONTACT ARE JIM MOON (QUALITY), AMSTA-QWH, DSN 786-7453, OR COMMERCIAL (313) 574-7453; AND JIM HOWARD (MAINTENANCE), AMSTA-MTC, DSN 786-7910, OR COMMERCIAL (313) 574-7910.



Appendix E

NSN 4730-01-280-9542

1. BREEZE INDUSTRIAL PRODUCTS AERO-SEAL HOSE CLAMP P/N 200152.
7.12 - 10.00 EFFECTIVE DIAMETER RANGE.

2. PARKER P/N FV108-1 .62 OD X .50 ID X 27" CLEAR VINYL TUBING.
NSN 4730-01-353-7464